

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/532,014
Source: PCF
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/532,014

DATE: 02/22/2006

TIME: 08:26:00

Input Set : A:\Sequence-List.txt
 Output Set: N:\CRF4\02222006\J532014.raw

3 <110> APPLICANT: Karolinska Innovations AB
 4 Ingelman-Sundberg, Magnus
 5 Karlgren, Maria
 6 Gomez, Alvin
 8 <120> TITLE OF INVENTION: Drug target in cancer therapy
 10 <130> FILE REFERENCE: P05980PC00/HAM/em
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/532,014
C--> 12 <141> CURRENT FILING DATE: 2005-04-20
 12 <150> PRIOR APPLICATION NUMBER: SE0203137-5
 13 <151> PRIOR FILING DATE: 2002-10-24
 15 <150> PRIOR APPLICATION NUMBER: US 60/420,787
 16 <151> PRIOR FILING DATE: 2002-10-24
 18 <160> NUMBER OF SEQ ID NOS: 10
 20 <170> SOFTWARE: PatentIn version 3.1
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 27
 24 <212> TYPE: DNA
 25 <213> ORGANISM: Homo sapiens
 27 <220> FEATURE:
W--> 28 <221> NAME/KEY: Primer
 29 <222> LOCATION: (1)..(27)
 30 <223> OTHER INFORMATION:
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 34 gaggtggagg catcttcttc tcatactg
 37 <210> SEQ ID NO: 2
 38 <211> LENGTH: 25
 39 <212> TYPE: DNA
 40 <213> ORGANISM: Homo sapiens
 42 <220> FEATURE:
W--> 43 <221> NAME/KEY: primer
 44 <222> LOCATION: (1)..(25)
 45 <223> OTHER INFORMATION:
W--> 48 <400> 2 25
 49 ctggatcagg gcgtccacat agctg
 52 <210> SEQ ID NO: 3
 53 <211> LENGTH: 23
 54 <212> TYPE: DNA
 55 <213> ORGANISM: homo sapiens
 57 <220> FEATURE:
W--> 58 <221> NAME/KEY: primer
 59 <222> LOCATION: (1)..(23)
 60 <223> OTHER INFORMATION:
W--> 63 <400> 3

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64 agctatgtgg acggccctgat cca 23
 67 <210> SEQ ID NO: 4
 68 <211> LENGTH: 23
 69 <212> TYPE: DNA
 70 <213> ORGANISM: homo sapiens
 72 <220> FEATURE:
W--> 73 <221> NAME/KEY: primer
 74 <222> LOCATION: (1)..(23)
 75 <223> OTHER INFORMATION:
W--> 78 <400> 4
 79 acgcgggtcta gtccttcctg cac 23
 82 <210> SEQ ID NO: 5
 83 <211> LENGTH: 15
 84 <212> TYPE: PRT
 85 <213> ORGANISM: homo sapiens
 87 <220> FEATURE:
88 <221> NAME/KEY: peptide
 89 <222> LOCATION: (1)..(15)
 90 <223> OTHER INFORMATION:
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 95 Thr Met Arg Pro Arg Ala Gln Ala Leu Cys Ala Val Pro Arg Pro
 96 1 5 10 15
 99 <210> SEQ ID NO: 6
 100 <211> LENGTH: 27
 101 <212> TYPE: DNA
 102 <213> ORGANISM: homo sapiens
 104 <220> FEATURE:
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 106 <222> LOCATION: (1)..(27)
 107 <223> OTHER INFORMATION:
W--> 110 <400> 6
 111 gacagatcta tggccctgct gctcttg 27
 114 <210> SEQ ID NO: 7
 115 <211> LENGTH: 28
 116 <212> TYPE: DNA
 117 <213> ORGANISM: homo sapiens
 119 <220> FEATURE:
W--> 120 <221> NAME/KEY: primer
 121 <222> LOCATION: (1)..(28)
 122 <223> OTHER INFORMATION:
W--> 125 <400> 7
 126 gactctagac tagggccctgg gcaccgca 28
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 130 <211> LENGTH: 490
 131 <212> TYPE: PRT
 132 <213> ORGANISM: homo sapiens
 134 <400> SEQUENCE: 8
 136 Met Ala Leu Leu Leu Leu Leu Phe Leu Gly Leu Leu Gly Leu Trp Gly
 137 1 5 10 15

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140 Leu Leu Cys Ala Cys Ala Gln Asp Pro Ser Pro Ala Ala Arg Trp Pro
141 20 25 30
144 Pro Gly Pro Arg Pro Leu Pro Leu Val Gly Asn Leu His Leu Leu Arg
145 35 40 45
148 Leu Ser Gln Gln Asp Arg Ser Leu Met Glu Leu Ser Glu Arg Tyr Gly
149 50 55 60
152 Pro Val Phe Thr Val His Leu Gly Arg Gln Lys Thr Val Val Leu Thr
153 65 70 75 80
156 Gly Phe Glu Ala Val Lys Glu Ala Leu Ala Gly Pro Gly Gln Glu Leu
157 85 90 95
160 Ala Asp Arg Pro Pro Ile Ala Ile Phe Gln Leu Ile Gln Arg Gly Gly
161 100 105 110
164 Gly Ile Phe Phe Ser Ser Gly Ala Arg Trp Arg Ala Ala Arg Gln Phe
165 115 120 125
168 Thr Val Arg Ala Leu His Ser Leu Gly Val Gly Arg Glu Pro Val Ala
169 130 135 140
172 Asp Lys Ile Leu Gln Glu Leu Lys Cys Leu Ser Gly Gln Leu Asp Gly
173 145 150 155 160
176 Tyr Arg Gly Arg Pro Phe Pro Leu Ala Leu Leu Gly Trp Ala Pro Ser
177 165 170 175
180 Asn Ile Thr Phe Ala Leu Leu Phe Gly Arg Arg Phe Asp Tyr Arg Asp
181 180 185 190
184 Pro Val Phe Val Ser Leu Leu Gly Leu Ile Asp Glu Val Met Val Leu
185 195 200 205
188 Leu Gly Ser Pro Gly Leu Gln Leu Phe Asn Val Tyr Pro Trp Leu Gly
189 210 215 220
192 Ala Leu Leu Gln Leu His Arg Pro Val Leu Arg Lys Ile Glu Glu Val
193 225 230 235 240
196 Arg Ala Ile Leu Arg Thr Leu Leu Glu Ala Arg Arg Pro His Val Cys
197 245 250 255
200 Pro Gly Asp Pro Val Cys Ser Tyr Val Asp Ala Leu Ile Gln Gln Gly
201 260 265 270
204 Gln Gly Asp Asp Pro Glu Gly Leu Phe Ala Glu Ala Asn Ala Val Ala
205 275 280 285
208 Cys Thr Leu Asp Met Val Met Ala Gly Thr Glu Thr Thr Ser Ala Thr
209 290 295 300
212 Leu Gln Trp Ala Ala Leu Leu Met Gly Arg His Pro Asp Val Gln Gly
213 305 310 315 320
216 Arg Val Gln Glu Glu Leu Asp Arg Val Leu Gly Pro Gly Arg Thr Pro
217 325 330 335
220 Arg Leu Glu Asp Gln Gln Ala Leu Pro Tyr Thr Ser Ala Val Leu His
221 340 345 350
224 Glu Val Gln Arg Phe Ile Thr Leu Leu Pro His Val Pro Arg Cys Thr
225 355 360 365
228 Ala Ala Asp Thr Gln Leu Gly Gly Phe Leu Leu Pro Lys Gly Thr Pro
229 370 375 380
232 Val Ile Pro Leu Leu Thr Ser Val Leu Leu Asp Glu Thr Gln Trp Gln
233 385 390 395 400
236 Thr Pro Gly Gln Phe Asn Pro Gly His Phe Leu Asp Ala Asn Gly His

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237 405 410 415
 240 Phe Val Lys Arg Glu Ala Phe Leu Pro Phe Ser Ala Gly Arg Arg Val
 241 420 425 430
 244 Cys Val Gly Glu Arg Leu Ala Arg Thr Glu Leu Phe Leu Leu Phe Ala
 245 435 440 445
 248 Gly Leu Leu Gln Arg Tyr Arg Leu Leu Pro Pro Pro Gly Val Ser Pro
 249 450 455 460
 252 Ala Ser Leu Asp Thr Thr Pro Ala Arg Ala Phe Thr Met Arg Pro Arg
 253 465 470 475 480
 256 Ala Gln Ala Leu Cys Ala Val Pro Arg Pro
 257 485 490
 260 <210> SEQ ID NO: 9
 261 <211> LENGTH: 2432
 262 <212> TYPE: DNA
 263 <213> ORGANISM: homo sapiens
 265 <220> FEATURE:
 266 <221> NAME/KEY: promoter
 267 <222> LOCATION: (1)..(137)
 268 <223> OTHER INFORMATION:
 271 <220> FEATURE:
 272 <221> NAME/KEY: exon
 273 <222> LOCATION: (138)..(1608)
 274 <223> OTHER INFORMATION:
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 278 gccctgcaaa ctgctcggttc cacattctcg ggggtgggtggg gtgggtgggg tgccgggcacg 60
 280 ccctcccgcg gaggcctata aagggtgcggg ggggacgggg cccaggaggg gagggtggagcc 120
 282 tcaccagcca cgtcctc atg gcc ctg ctg ttg ctg ttc ctg ggc ctc 170
 283 Met Ala Leu Leu Leu Leu Phe Leu Gly Leu
 284 1 5 10
 286 ctg ggg ctc tgg ggg ctg ctc tgc gcc tgc gac ccc tcc cca 218
 287 Leu Gly Leu Trp Gly Leu Leu Cys Ala Cys Ala Gln Asp Pro Ser Pro
 288 15 20 25
 290 gct gcc cgg tgg ccc ccc ggg cct cgc ccg ctg ccg ctc gtc ggg aac 266
 291 Ala Ala Arg Trp Pro Pro Gly Pro Arg Pro Leu Pro Leu Val Gly Asn
 292 30 35 40
 294 ctg cac ttg ctg cgt ctg tcg caa cag gac cgg tcc ctg atg gag ctc 314
 295 Leu His Leu Leu Arg Leu Ser Gln Gln Asp Arg Ser Leu Met Glu Leu
 296 45 50 55
 298 tca gaa cgc tac ggg ccc gtg ttc acc gtg cac ctg ggg cgc cag aag 362
 299 Ser Glu Arg Tyr Gly Pro Val Phe Thr Val His Leu Gly Arg Gln Lys
 300 60 65 70 75
 302 acg gtg gtg ctg acg ggg ttc gag ggc gtc aaa gag ggc ctg ggc ggc 410
 303 Thr Val Val Leu Thr Gly Phe Glu Ala Val Lys Glu Ala Leu Ala Gly
 304 80 85 90
 306 ccc ggg cag gag ctg gcc gac cgg cct ccc atc gcc atc ttc cag ctc 458
 307 Pro Gly Gln Glu Leu Ala Asp Arg Pro Pro Ile Ala Ile Phe Gln Leu
 308 95 100 105
 310 atc cag cga ggt gga ggc atc ttc ttc tca tct ggg ggc cgc tgg agg 506
 311 Ile Gln Arg Gly Gly Ile Phe Phe Ser Ser Gly Ala Arg Trp Arg

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312	110	115	120	
314	gct gcc cgc cag ttc acg gtg cgt gcc ctg cac agc ctg ggc gtg ggc			554
315	Ala Ala Arg Gln Phe Thr Val Arg Ala Leu His Ser Leu Gly Val Gly			
316	125	130	135	
318	cgg gag ccg gtg gct gac aag att ctg cag gag ctg aaa tgc ctc tct			602
319	Arg Glu Pro Val Ala Asp Lys Ile Leu Gln Glu Leu Lys Cys Leu Ser			
320	140	145	150	155
322	ggg cag ctg gat ggc tac aga ggc cgg ccc ttc ccg ctg gcc cta ctg			650
323	Gly Gln Leu Asp Gly Tyr Arg Gly Arg Pro Phe Pro Leu Ala Leu Leu			
324	160	165	170	
326	ggc tgg gct ccc tcc aat atc acc ttc gcg ctc ctc ttc ggc cgc cga			698
327	Gly Trp Ala Pro Ser Asn Ile Thr Phe Ala Leu Leu Phe Gly Arg Arg			
328	175	180	185	
330	ttt gac tac cgg gac ccc gtc ttt gtc tcc ctg ctg ggt ctc atc gat			746
331	Phe Asp Tyr Arg Asp Pro Val Phe Val Ser Leu Leu Gly Leu Ile Asp			
332	190	195	200	
334	gag gtc atg gtc ctc ttg ggg tcc cct ggc ctg cag ctg ttc aac gtc			794
335	Glu Val Met Val Leu Leu Gly Ser Pro Gly Leu Gln Leu Phe Asn Val			
336	205	210	215	
338	tac cca tgg ctc ggg gcc ctg ctc cag ctg cac cgg ccc gtc ctg cgc			842
339	Tyr Pro Trp Leu Gly Ala Leu Leu Gln Leu His Arg Pro Val Leu Arg			
340	220	225	230	235
342	aag atc gag gag gtc cgt gcc att ctg agg acc ctc ctg gag gcg cgg			890
343	Lys Ile Glu Glu Val Arg Ala Ile Leu Arg Thr Leu Leu Glu Ala Arg			
344	240	245	250	
346	agg ccc cac gtc tgc ccc ggg gac ccc gtc tgc agc tat gtc gac gcc			938
347	Arg Pro His Val Cys Pro Gly Asp Pro Val Cys Ser Tyr Val Asp Ala			
348	255	260	265	
350	ctg atc cag cag gga cag ggg gat gac ccc gag ggc ctg ttt gct gag			986
351	Leu Ile Gln Gln Gly Gln Asp Asp Pro Glu Gly Leu Phe Ala Glu			
352	270	275	280	
354	gcc aac gcg gtg gcc tgc acc ctg gac atg gtc atg gcc ggg acg gag			1034
355	Ala Asn Ala Val Ala Cys Thr Leu Asp Met Val Met Ala Gly Thr Glu			
356	285	290	295	
358	acg acc tcg gcc acg ctg cag tgg gcc gca ctt ctg atg ggc cgg cac			1082
359	Thr Thr Ser Ala Thr Leu Gln Trp Ala Ala Leu Leu Met Gly Arg His			
360	300	305	310	315
362	ccg gac gtg cag ggc cgg gtg cag gag gag cta gac cgc gtg ctg ggc			1130
363	Pro Asp Val Gln Gly Arg Val Gln Glu Glu Leu Asp Arg Val Leu Gly			
364	320	325	330	
366	cct ggg cgg act ccc cgg ctg gag gac cag cag gct ctg ccc tac aca			1178
367	Pro Gly Arg Thr Pro Arg Leu Glu Asp Gln Gln Ala Leu Pro Tyr Thr			
368	335	340	345	
370	agc gcc gtg ctc cac gag gtg cag cgg ttc atc acg ctc ctg ccc cac			1226
371	Ser Ala Val Leu His Glu Val Gln Arg Phe Ile Thr Leu Leu Pro His			
372	350	355	360	
374	gtg ccc cgc tgc acc gcg gcc gac aca cag ctg ggc ggc ttc ctg ctc			1274
375	Val Pro Arg Cys Thr Ala Ala Asp Thr Gln Leu Gly Gly Phe Leu Leu			
376	365	370	375	

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/532,014

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Input Set : A:\Sequence-List.txt
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L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:28 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1
L:33 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:30
L:43 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:2
L:48 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:2,Line#:45
L:58 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3
L:63 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:60
L:73 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:4
L:78 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:4,Line#:75
L:93 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:5,Line#:90
L:105 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:6
L:110 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:6,Line#:107
L:120 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:7
L:125 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:7,Line#:122
L:277 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:9,Line#:268
L:277 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:9,Line#:274